

10-23

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Y1..... NATIONAL PARK

MONTHLY REPORT

FILE No. 143

FOR

DECEMBER - 1922.

January 5, 1923.

Dear Sir:

The following is my report on, and operation of, Yellowstone National Park for December, 1922:

I. GENERAL CONDITIONS:

Road conditions were considerably above the average during the month. Only one heavy fall of snow occurred on the 7th. This made it necessary to run the snow plow down the road two miles, in order that freight and passenger vehicles could operate between headquarters and Gardiner. The Park Service and Camps Company did a great deal of heavy hauling during the first part of the month, but there was little interference due to snow and weather conditions. The Cooke City stage was forced to discontinue the use of their motor truck and use teams to transport mail. All other park roads were closed to motor traffic. However, teams could reach interior parts of the park without much effort during the entire month. On the 30th there was but 20 inches of snow on the Canyon Divide and a car made the trip from West Yellowstone to Gardiner on December 3rd.

Weather

The weather has been rather cold, stormy and with a great deal of wind. The first part of the month was rather severe, with heavy falls of snow and low temperatures. The lowest in the park was 34° below at Riverside on the 14th, the lowest at Mammoth being 16° below on the same date. A storm on the 6th and 7th precipitated a total of 12.5 inches of snow at Mammoth, bringing the total amount on the ground to 17 inches. This storm was peculiar in that it did not affect the interior regions to any proportionate degree. Only 6 inches fell at the Lake and 4 inches at Riverside during this storm.

The following records are quoted from the report for December of the Observer in charge of the local United States Weather Bureau at Mammoth Hot Springs, Park Headquarters:

Temperature: Monthly mean, 18.6°, is 3.0° below normal. Coldest December since 1919. The first 18 days were cold and stormy, there being 9 days during this period with temperature below zero. The lowest was 16° below zero on the 14th. There are but two Decembers of record with a greater number of days with temperature below zero. A reaction to warmer occurred on the 19th and temperatures somewhat above normal prevailed to the end of the month.

Precipitation: Total, 1.98 inches, is 0.16 inch above normal.

Snowfall: Total 23.6 inches; normal 14.6 inches. Snow occurred daily during the first 10 days, and intermittently thereafter. More than half the month's snowfall occurred during the storm of the 6-7th, when 12.5 inches fell. The greatest depth of snow on the ground was 17.0 inches on the 7th. The snow settled considerably during the latter part of the month and 13.8 inches remained on the ground on the 31st.

Wind: Average hourly velocity, 9.8 miles, has been exceeded only in 1917.

Sunshine: Percentage of possible 26; normal 40. A less amount of sunshine has occurred but once during the period of record, 8 in 1917.

Snow Depths: On December 31st, rangers on stations reported the following snow depths:

<u>Station</u>	<u>1921</u> <u>inches</u>	<u>1922</u> <u>inches</u>
Mammoth	16	13.8
Norris	36	
Riverside	28	24
Gallatin	13	22
Bechler	50	30
Snake River	45	30
Thumb	40	34
Lake	32	
Upper Yellowstone	32	
Canyon Station	48	34
Tower Falls	22	15
Buffalo Ranch	20	15
Soda Butte Station	36	26
Crevice Station	27	
Hellroaring	19	

Ranger Douglas reports 4 feet on Lewis Lake Divide.

Travel: At this time of the year park travel consists mostly of salesmen or people visiting the park on business matters and amount to but little in the season totals. A total of 13 entered the park. Attached is the Chief Ranger's travel report.

II. PERSONNEL:

On December 1st there were 71 on the payrolls and on December 31st there were 74. The following list shows the number of appointees of various classes serving during the month with a general statement of the kind of work in which they were engaged:

<u>No.</u>	<u>Class</u>	<u>Kind of work performed</u>
1	Superintendent	General administration and supervision of all activities in the park.
1	Asst. Supt.	Administration, purchasing, disbursing.
1	Asst. Supt.	Information, reports, etc.
2	Asst. Engineers	1 in charge of engineering work in park, 1 assisting.
7	Clerks	1 Financial Clerk; 1 Cost Accounting Clerk; 1 Personnel, File and Report Clerk; 1 Time and Payroll Clerk; 2 Stenographer-Typists on stenographic work, clippings, etc.; 1 Stenographer-Typist on orders, proposals and vouchers. (The last clerk listed assigned off close 1/31/23)
3	Electricians	Operated power plant regular shift, including Sundays, read meters, did necessary line work.
3	Foremen	1 in charge of Headquarters Corral; 1 repairing sprinkler tanks at Mammoth; 1 on construction.
1	Telegraph Operator	Sent and received all Government Western Union messages, operated one shift on telephone switchboard.
2	Telephone Switchboard operators.	Operated telephone switchboard daily shifts, including Sundays.

DEPARTMENT OF THE INTERIOR.
NATIONAL PARK SERVICE—YELLOWSTONE NATIONAL PARK.

CHIEF RANGER'S MONTHLY TRAVEL REPORT, MONTH OF Dec

	NORTH.		WEST.		EAST.		SOUTH.	
	Cars.	People.	Cars.	People.	Cars.	People.	Cars.	People.
Automobile permits issued								
Automobile permits issued (complimentary)								
Cars entering second time								
Motor-cycle permits issued								
Total								
Passengers in horse-drawn vehicles		8		5				
Passengers on horseback								
Passengers on bicycles								
Passengers on foot								
Total incoming passengers with private transportation WITH HIRED TRANSPORTATION.		8		5				
Yellowstone Park Transportation Co								
Total incoming passengers with hired transportation								
TOTAL INCOMING PASSENGERS		8		5				

Total automobiles in public camping grounds Total passengers Cooke City stage SEASON TOTAL

Total automobile campers in public camping grounds Total visitors Cave Falls—Bechler River Region SEASON TOTAL

Total campers all classes

1	Master Mechanic	In charge of shops and repair to heavy road machinery.
1	Blacksmith	General blacksmith work, including shoeing of horses in shop, overhauling and repairing tools and equipment.
1	Master Painter	General shop work, including painting equipment and buildings.
6	Laborers	Teaming, freighting, assisting mechanics and miscellaneous work at headquarters.
1	Steward & Master of Transportation	In charge of all transportation and of storehouses.
1	Chief Buffalo Keeper	In charge of tame buffalo herd.
2	Asst. Buffalo Keepers	1 assisting Buffalo Keeper; 1 in charge of hay ranch operations at Slough Creek
1	Buffalo Herder	Assisting Buffalo Keeper (2 WOP - month of Jan.)
1	Master Plumber	In charge of general plumbing and water and sewer systems.
1	Auto Mechanic	On duty at power plant. (for - for month of Jan.)
1	Machinist	Repairing equipment. (WOP)
1	Carpenter	Repairing buildings at headquarters.
1	Chief Park Ranger	In charge of ranger force
1	Fish & Game Warden	In charge special observation and reports on wild animals. Trapping predatory animals.
1	First Asst. Chief Park Ranger	In charge of northern district
2	Assts. Chief Park Ranger.	1 on duty at Lake District; 1 in charge of Western District.
12	Park Rangers	Patrolling park borders, protecting game, miscellaneous duties.

- | | | |
|---|-------------------|--|
| 5 | Temporary Rangers | Patrolling, miscellaneous duties.
(One appointed effective December
21, 1922). |
| 7 | WAB Park Rangers | In charge of stations. |

Leaves of Absence

Anton Koncilya, Buffalo Herder, Dec. 3-31, 24 days.
F. R. Marriott, Laborer, Dec. 4-6 (noon), $2\frac{1}{2}$ days.
J. D. Fraser, Mechanic, Dec. 1-6 (noon), $4\frac{1}{2}$ days.
Lucy Bilkert, Clerk, Dec. 5-7, 3 days.
Berenice J. Finney, Clerk, Dec. 5-7 (noon), $2\frac{1}{2}$ days
Joseph Joffe, Clerk, Dec. 7-9, 3 days.
Joseph Douglas, Asst. Chief Ranger, (noon) Dec. 7-9, $2\frac{1}{2}$ days.
Sam T. Woodring, Chief Ranger (noon) Dec. 7-9, $2\frac{1}{2}$ days.
Harry Trischman, 1st Asst. Chief Ranger (noon) Dec. 7-9, $2\frac{1}{2}$ days.
Bert Stinnett, Master Mechanic, Dec. 1-4, 3 days.
A. W. Burney, Asst. Engr., Dec. 6, 1 day
B. C. Lacombe, Chief Buffalo Keeper, Dec. 6-8, 3 days.
A. C. Neumann, Master Painter, Dec. 7-9, 3 days.
Clarence Scoyan, Laborer, (noon) Dec. 8-9, $1\frac{1}{2}$ days
Bert Stinnett, Master Mechanic, Dec. 9, 1 day
Wm. Riley, Auto Mechanic, Dec. 5-7, 3 days.
Julia S. Stockett, Stenog.-Typist, Dec. 11-26, 13 days.
John Bauman, Ranger, Dec. 9, 1 day
W. J. O'Laughlin, Laborer, Dec. 6-7, 2 days
C. R. Stinnett, Blacksmith, Dec. 9, 1 day
A. C. D. Henman, Laborer, Dec. 9, 1 day
E. T. Scoyen, Asst. Chief Ranger, Dec. 9-11, 2 days.
Joseph Joffe, Clerk, Dec. 16-31, 13 days
Lucy Bilkert, Clerk (noon) Dec. 13, $1\frac{1}{2}$ day
Deate T. White, Foreman, Dec. 16, 1 day
Berenice J. Finney, Clerk, (noon) Dec. 18, $1\frac{1}{2}$ day
Fred C. Finch, Ranger, Dec. 19-31, 11 days
A. W. Burney, Asst. Engr., Dec. 18-19, 2 days
Peter E. Bilkert, Financial Clerk, Dec. 12-19, 5 days
A. R. Edwin, Cost Clerk, Dec. 19 (noon), $1\frac{1}{2}$ day
Mrs. Helen Hall, Stenog.-Typist, (noon) Dec. 19, $1\frac{1}{2}$ day
Leroy Hill, Acting Supt., (noon) Dec. 21, $1\frac{1}{2}$ day.
Nellie Roach, Tel. Operator, Dec. 23-31, 6 days.
Wm. Riley, Auto Mechanic (noon) Dec. 28-31, $2\frac{1}{2}$ days
A. W. Burney, Asst. Engr., Dec. 23, 1 day
Warren H. Loyster, Ranger, (noon) Dec. 23-(noon) Dec. 27, 2 days
Berenice J. Finney, Clerk, (noon) Dec. 29, $1\frac{1}{2}$ day
Berenice J. Finney, Clerk, (noon) Dec. 30, $1\frac{1}{2}$ day

Leroy Hill, Acting Supt., (noon) Dec. 30, 1/2 day
A. R. Edwin, Cost Clerk, (noon) Dec. 30, 1/2 day
Lucy Bilkert, Clerk, Dec. 26-30, 5 days
Deate T. White, Foreman, Dec. 30, 1 day
Peter Bilkert, Financial Clerk, Dec. 28 (noon), 1/2 day
Peter Bilkert, Financial Clerk, Dec. 30, 1 day
Bert Stinnett, Master Mechanic, Dec. 13-16, 4 days
C. R. Stinnett, Blacksmith, Dec. 26-27 (noon), 1 1/2 days
Mrs. Helen Hall, Stenog.-Typist, Dec. 26, 1 day

Appointments

Roy C. Brown, Park Ranger, Temporary, \$100 per month, plus increase of compensation and quarters, effective December 21, 1922.

Furloughs

Smith
✓ Carrie O. Haumesser, Stenog-Typist, \$1320 per annum, plus increase of compensation and quarters, furloughed October 1st to December 31, 1922, inclusive.

✓ Harry R. Marshall, Auto Mechanic, \$1320 per annum, plus increase of compensation and quarters, furloughed October 16, 1922 to April 15, 1923, inclusive.

✓ Edmund J. McKeon, Auto Mechanic, \$1320 per annum, plus increase of compensation and quarters, furloughed Nov. 1, 1922 to April 30, 1923, inclusive.

✓ Charles W. Enochs, Foreman, \$1800 per annum, plus increase of compensation and quarters, furloughed October 24, 1922, to April 23, 1923, inclusive.

✓ John H. Tuttle, Asst. Engineer, \$175 per month, plus increase of compensation and quarters, furloughed September 19, 1922, to March 18, 1923, inclusive.

In addition to the regular employees listed above under appointment, the following were employed temporarily by the day:

	<u>Dec. 1st</u>	<u>Dec. 31st</u>
2-horse teamsters	1	1
Laborers	1	1
Skilled Laborers	1	2
Plumbers		1
Carpenter	1	1
	4	6

	<u>Dec. 1st</u>	<u>Dec. 31st</u>
Total brought forward	4	6
Appointees	<u>67</u>	<u>68</u>
Total on Payroll	71	74

III. WORK COMPLETED:

(a) Construction of Physical Improvements:

The ceiling of the garage-machine shop was completed this month by Foreman Deate T. White and Carpenter W. L. Bicket.

(c) Miscellaneous Improvement Work:

The Steward and Master of Transportation reports that two trucks and two drivers were at work during the month hauling forage and plumbing supplies from Gardiner to Mammoth. Some repairing was done on the ice-house and quite a bit of laboring around the yards. A complete inventory was taken.

The Master Painter painted fire hose truck #1 and repainted seven water sprinkler wagons, making a total of eleven ready for next summer. The dining and living rooms were papered, the woodwork in hall painted and the kitchen kalsomined at the Bilkert's quarters. The back hall was kalsomined at Bert Stinnett's quarters and the living room was papered and varnished at Neumann's quarters. A bedroom at Allan's quarters had to be papered, as paper had come loose in various places, caused by freezing last winter before paste was dry. The various storm sashes for buildings were glazed. A physical inventory of stock, per order of December 1, 1922, was taken, and work was started on the large signs.

The Master Plumber reports the completion of the Post Office Building heating system. A vacuum pump was installed. The plumbing system in Bilkert's quarters was remodeled and this was also done in the old power plant, which is used by A. C. D. Herman as quarters. General repair and maintenance work was done on the sewer and water system at Mammoth Hot Springs.

The Master Mechanic reports a complete physical inventory of stock, and general repair work on trucks.

The Blacksmiths did repair work on graders, and the usual small jobs as shoeing of horses, etc.

The Carpenter reports mostly small jobs around the shop, and the ceiling of the shop building.

Buildings and Corrals: The foreman and two men took care of the stables, corrals and furnaces. They also used the snowplow to keep the roads open. An inventory was taken of stock.

The Acting Chief Electrician reports that the power line in the rear of quarters, which was started in November, was finished. The work consisted in the setting up of nine new poles, and new wire. Two 15 KW transformers were put in to replace two 3 KW transformers which were badly overloaded. Several heaters and also one electric range have been installed during the month.

The Power Plant was run constantly, with the results shown in comparison for December, 1921, as follows:

	<u>1921</u>	<u>1922</u>
Total current generated, in KWH	23,540	24,740
Of this, sold to public utilities		
at 5¢ per KWH	5,966	1,733
Consumed for street lighting	1,887	2,732
Balance, consumed in Government		
buildings, for power and light-		
ing, lost on lines in transit	15,687	20,275
Peak load during month in KWH	54	70

In compliance with office circular dated December 1, 1922, copy of which is attached, a complete physical inventory was taken of Government materials in the following departments, as of January 1, 1923:

Storehouse	(Mr. Brant)
Plumbing	(Mr. Wiggins)
Electrical	(Mr. Allan)
Painting	(Mr. Neumann)
Shops	(Mr. B. Stinnett)
Stables	(Mr. McFarland)

The inventory sheets submitted are being carefully examined and copies will be prepared for the respective departments and for use by the office; likewise all bin cards and other forms of records in the departments mentioned, have been made current. The month of December was chosen because of the one-half year period of the present fiscal year having elapsed and the availability in respect to time being more favorable by the department heads at this season of the year. It is proposed to maintain a system of "purchases" and

"issues" between January 1 and June 30th, with the present inventory sheets as a basis of examination, and supplemented on July 1st with figures to be incorporated into the cost accounting system. It is hoped that methods may be evolved further tending toward a more successful operation of inventory on a perpetual-inventory scheme.

The figures are already proving very interesting and those in charge of departments have expressed surprise as to the hugeness when based upon actual figures and impressed with the importance of the monetary values which are being disclosed of the material under their charge and supervision.

A considerable amount of work was naturally involved in this taking of inventory but it is felt that all concerned have profited, and will continue to benefit as indicated by the many favorable comments being made. An excellent spirit prevails which insures more perfect records in the future in view of the "clean slate" now available to begin with.

The Telephone and Switchboard Office was open daily from 7:30 A. M. to 8:45 P. M.

Switchboard Calls

On Government Local Lines.....	3538
On Hotel Company Lines.....	259
On Long Distance Connections.....	<u>111</u>
Total.....	3908

Telegrams

Government Sent.....	70
Commercial Sent.....	<u>39</u>
Total.....	109
Government Received.....	43
Commercial Received.....	<u>25</u>
Total.....	68

Office Force

The office force was busy with the usual routine work which includes orders, payment of vouchers, preparation of accounts, reports, general correspondence, etc. Work on the newspaper clippings and on the photograph albums was continued. 485 pieces of official mail were received and 449 were sent out during the month.

Ranger Force

Skis are now the principal means of transportation for rangers in the park. The last horses were brought in from outlying districts on December 2nd, when those from Riverside arrived at Mammoth. Winter routine is now carried out at all park stations.

Several patrols of importance were carried out. On December 23rd Rangers Lee and George Webb made a ski patrol from Gallatin Station to Mammoth via Fawn Pass. They completed the trip of 32 miles in the rather remarkable time of 9 hours. This trip was for the purpose of observing game conditions and making a final inspection of the telephone line. They left Mammoth on the 26th and returned to their station via Sportsman Lake.

Although the above patrol is the most prominent of any during the month, the regular work on all stations has been done thoroughly and all parts of the park have received the maximum amount of protection possible with the number of men available.

All telephone lines have been kept in operation the greater part of the month. The Riverside line was out of commission for a few days due to a break near Beryl Spring in Gibbon Canyon. The Sylvan Pass line has been down for the past week, but should be repaired in the next few days. The Snake River line broke during the stormy weather early in the month but has been repaired. Rangers at Gallatin have done a great deal of work on their line, and communication with this station has never been better since the line was built.

On December 4th Rangers Loyster and Brown were moved to Hoppe's Ranch for the purpose of protecting and observing the antelope during the coming winter. This move was also made to fulfill our part of the agreement between the National Park Service, Forest Service and State Game Department. Under the above we were to patrol the area around the ranch, Electric and Reese Creek.

On December 24th Park Ranger McLaughlin found an elk that had been killed near the old smelter east of Gardiner. Evidence showed that the poachers had a lookout stationed, who warned them of McLaughlin's approach. The kill was fresh and was only partly cleaned, showing that they had left in a hurry. It was impossible to track them further than the Jardine Road. It is evident that whoever committed the crime was expecting patrol of this area to be lax during the holiday season. Park Rangers are instructed to do more extensive patrolling on holidays than any other time, and intensive patrols in dangerous poaching areas are maintained every day of the year. A report of the affair was made to the State Game Department and they also took charge of the carcass.

IV. WORK IN PROGRESS.

(a) Construction of Physical Improvements

Foreman Wm. H. Farrell is overhauling and repairing the sprinklers. This work is 50% completed.

A crew is removing the snow from the pond in preparation for the cutting of the coming season's ice. This crew is made up entirely of the permanent organization so it wont be necessary to employ outside help.

The work on the ceiling of the carpenter shop is being continued and will be completed the early part of January.

Yellowstone Park Camps Company: Up until December 20th there were 15 men working on the new central building at Mammoth Camp. Since that time there have been 3 carpenters working on furniture and doing repair work in the shop.

VII. POLICIES.

There were no changes in policy during the month.

VIII. COST OF OPERATION

The cost of operation of Yellowstone National Park will be shown on the Cost Accounting Report for the month of December, which report will be forwarded shortly.

IX. OTHER MATTERS OF INTEREST

Wild Animals

Game Conditions: All game has wintered in excellent shape to date. There has neither been a single winter kill, nor has any of the game shown any signs of weakness.

Although the snowfall was above the normal it did not affect forage conditions adversely. High winds cleared the high ridges, and the snow in meadows and open country was light, making the grass easy to uncover.

The severe weather during the first part of the month no doubt caused the game some discomfort, but this was offset by ideal conditions during the latter half.

Elk: Practically the entire Yellowstone herd was in the Northern District by December 15th. A few stragglers were seen in interior districts, but these have no doubt moved down by now.

The Gallatin herd is out of the park. There is about 1,500 on the east side of the Gallatin River and several hundred more on the west side just north of the park boundary.

We have the usual small bands in the warm basins around Norris, Fountain and Old Faithful. No effort has been made to count these as yet.

Due to the fact the snow has been light and forage easy to obtain, we have practically the same situation as last winter. Elk are not concentrated in the lowest valleys in large herds but are scattered throughout the winter ranges in small bands. Every hill and ridge has its small band of elk. A herd of 21 bulls were seen on the ridges above Fawn Pass, which shows that they are to be found at practically any elevation.

Counts made during the week ending December 21st showed a total of 8,000 of the Yellowstone herd accounted for. Since then we have found about 2,000 more and adding in the Gallatin herd, we know definitely of 12,000 elk in the northern herd.

Antelope: Counts during the month showed a total of 234 in the herd at present. Conditions have been ideal for this animal during the month. The north line fence has been raised in several places to allow free passage to Hoppe's Ranch, but only 56 have availed themselves of the opportunity. These have not gone down any distance, but have kept very close to the line.

The remainder of the herd is on the ridges toward Sepulchre and scattered in various places throughout the Gardiner District.

Deer: Deer are probably thriving more than any other wild animal in the park. They are gradually widening their range to take in new areas, as their number increases.

They were observed in the Western District frequently during the past fall, which has never been the case before.

Mountain Sheep: We have been very fortunate in getting counts on our mountain sheep this winter. The following is the number of sheep actually seen by rangers:

Tower Falls District, including Yellow-	
stone Bridge, Junction Butte and	
Specimen Ridge.....	86
Gardiner Canyon.....	17
Cut-off Mountain.....	12
Hellroaring.....	<u>27</u>
Total.....	142

Many important sheep districts have not been investigated as yet and it would no doubt be easy to more than double the above number. All are in excellent condition and there is no sign of the scab that caused so much trouble several years ago.

Wild Buffalo: Rangers from the Lake Station saw a total of 8 wild buffalo on Pelican Creek. No great efforts have been made to count these animals as yet.

Tame Buffalo Herd: Conditions at the Buffalo Ranch have been excellent the entire month. Feeding was started on the 17th. A total of 15 tons was fed. One "outlaw" buffalo bull was killed by authority of the Director.

Moose: Moose have been seen on Hellroaring, Slough Creek, Upper Yellowstone and the Madison River and signs in other parts of the park have been seen.

Predatory Animals: A total of 45 coyotes were killed during the month, of which Anderson killed 26, Hellroaring 3, Buffalo Ranch 4, Riverside 4, McBride 1, Lake 1, Snake River 6.

Dewing at Gardiner does not report any kills.

Anderson turned in 12 hides.

Feeding Game: Feeding game commenced at Slough Creek on December 6th. An average of 800 were present at the feeding grounds. Only enough hay was fed to hold the elk, as forage was easy to obtain.

Hay fed at Slough Creek.....	30 tons
" " " Buffalo Ranch.....	<u>15 tons</u>
Total for month.....	45 tons

In December of last year, 27 tons of hay were fed and 12 tons were destroyed by elk, making a total of 39 tons disposed of last December against 15 this year, at the Buffalo Ranch.

Sickness and Medical Attention

Dr. J. M. Wolfe, National Park Service physician, reports having made 62 resident calls and having had 10 office calls during the month of December.

Accidents and Casualties

On the night of December 16th, while tobogganing down Capitol Hill, Chief Ranger Woodring wrenched his knee rather severely, incapacitating him for several days. At the present writing, however, he has almost entirely recovered.

Religious Services

During December services were held in the chapel by W. Friend Day, who represents the Episcopal Church in the field composed of the Yellowstone Valley as far down as Livingston, Montana, and up to the Park, on the evening of December 3rd and the morning of December 17th, and by Rt. Rev. H. H. H. Fox, Suffragen Bishop of Montana, assisted by Mr. Day, on the evening of December 31st.

Motion Pictures

The Hal Roach Company, which has been taking scenes for "The Call of the Wild", has been operating in the park at times. They have spent the most of their time at Jardine making scenes for an Alaskan mining town. They have obtained some excellent game pictures and are very enthusiastic over the park as a scenic background.

School

The following is the report of the school for December, under the direction of Mrs. Harriott, teacher:

	<u>Boys</u>	<u>Girls</u>	<u>Total</u>
No. of pupils enrolled.....	9	8	17
No. of days taught.....			15
No. days attendance.....	125	116 $\frac{1}{2}$	241 $\frac{1}{2}$
No. cases tardiness.....	1	9	10
Percent of attendance.....	92.6%	97.8%	95.2%
Percent of punctuality.....	99.3%	91.7%	95.5%

Post Office

Mr. C. A. Lindsley, the Park Postmaster, reports an unusually heavy business in the post office during the quarter ending December 31st. This is accounted for by the fact that there were more people in the park than usual during that period on account of the building activities of the hotel and camps companies.

IX. RECEIPTS AND REMITTANCES

Certified check #1333, dated Dec. 18, 1922, drawn by Howard H. Hays, on the Northwestern National Bank of Livingston, Montana, to the Director, National Park Service, amount.....	\$ 14.85
Postal Money Order #51133, dated Dec. 23, 1922, drawn by the Postmaster of Yellowstone Park, on the Postmaster at Washington, D.C., amount.....	0.90
Draft #11828, issued by National Park Bank, Livingston, Montana, on the Chase National Bank, New York City, representing $2\frac{1}{8}\%$ of the gross receipts of the Yellowstone Park Camps Co. for 1922, amount.....	11,417.64
Certified check #1062, dated Dec. 30, 1922, drawn by J. E. Haynes, on the First National Bank, St. Paul, Minn, to The Director, National Park Service, representing 4% of the gross receipts of J. E. Haynes for 1922, amount.....	<u>3,553.91</u>
Total.....	\$14,987.30

Sincerely yours,

LEROY HILL
Acting Superintendent

The Director,
National Park Service,
Washington, D. C.

ETS-BJP/JJ

December 1, 1922.

MEMORANDUM TO: (Head of Each Department)

In view of recent changes in the accounting system instigated by the Bureau of the Budget, a complete, itemized physical inventory, disclosing the value of Government property on hand, will be required of all materials, supplies, equipment, machinery, tools, etc., as of January 1, 1923.

You are therefore instructed to prepare this itemized inventory for your department, to be prepared in proper form for submission on the above date. This must be accomplished without fail; an inventory will be required, expected and reasons for failure to do so will not be accepted.

Legible figures and writing with all sheets numbered in consecutive order, disclosing by whom prepared, properly segregating by class of materials, i.e. tools will not be listed indiscriminately with supplies, but stated separately and classified under their proper designations.

To prevent confusion between materials on hand, purchases received during process of taking inventory, and issues thereof will be kept on a sheet to be kept for purchases and another account for issues made during the interim. Obviously your inventory sheets will not be submitted prior to January 1, 1923.

The inventory will be checked as to accurateness by certain designated employees after submission by those in charge of departments.

Office supplies required to carry the foregoing into effect will be furnished upon request; likewise any information appertaining to the methods to be pursued where difficulties are encountered.

LEROY HILL
Acting Superintendent

PEB

YELLOWSTONE
NATIONAL PARK
LIBRARY

4623

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

MONTHLY METEOROLOGICAL SUMMARY.

Station, YELLOWSTONE PARK, WYO.; month, DECEMBER, 1922., 19

Day.	TEMPERATURE. (Degrees Fahrenheit.)			Precipitation. (In inches and hundredths.)	Sunshine, percent— Character of day.	Sunshine, percent— age.	ATMOSPHERIC PRESSURE. (Reduced to sea level; inches and hundredths.)	
	Max.	Min.	Mean.				Mean	lowest
	26	18	22	.02	Cloudy	0	30.10	29.48
1	27	21	24	.01	Cloudy	2	30.57	20
2	28	10	19	.09	Cloudy	4		10
3	24	5	14	.04	Cloudy	14		
4	33	6	20	.18	Cloudy	0		
5	25	-10	8	.83	Cloudy	0		
6	22	-10	6	.04	PtCloudy	61		
7	16	-7	4	.02	Cloudy	0		
8	25	15	20	.02	Cloudy	0		
9	31	16	24	.17	Cloudy	0		
10	19	-1	9	0	Clear	98		
11	15	-9	3	0	Clear	90		
12	9	-7	1	.17	Cloudy	0		
13	14	-16	-1	T	PtCloudy	75		
14	14	7	10	.01	PtCloudy	67		
15	14	-1	6	T	Cloudy	43		
16	19	-4	8	0	Clear	100		
17	30	7	18	.03	Cloudy	0		
18	39	22	30	T	PtCloudy	55		
19	28	18	23	0	Cloudy	0		
20	35	24	30	0	Cloudy	34		
21	34	22	28	0	Cloudy	31		
22	30	21	26	0	Cloudy	0		
23	41	27	34	.01	Cloudy	1		
24	38	22	30	0	PtCloudy	81		
25	29	22	26	.08	Cloudy	0		
26	38	29	34	.02	Cloudy	0		
27	38	31	34	.02	Cloudy	0		
28	31	21	26	.09	Cloudy	27		
29	23	15	19	T	Cloudy	38		
30	30	18	24	.13	Cloudy	2		
Total.	26.6	10.7	18.6	1.98		26		
Mean 30.10; highest 30.57, date 20								
lowest 29.48, date 10								
TEMPERATURE.								
Highest 41, date 24; lowest -16, date 14								
Greatest daily range 35, date 6								
Least daily range 6, date 2								
Mean for this month in								
1871	80	89	25	98	17	07	22	16
1872	81	90	28	99	19	08	20	17
1873	82	91	18	00	24	09	12	18
1874	83	92	16	01	22	10	23	19
1875	84	93	24	02	23	11	16	20
1876	85	94	20	03	23	12	18	21
1877	86	95	19	04	23	13	21	22
1878	87	96	21	05	19	14	17	23
1879	88	97	19	06	28	15	20	24
Normal for this month 21.6								
Absolute maximum for this month for 36 years 48								
Absolute minimum for this month for 36 years -31								
Average daily excess (+) or deficiency (-) of this month as compared with the normal -3.0								
Accumulated excess (+) or deficiency (-) since January 1 -549								
Average daily excess (+) or deficiency (-) since January 1 -1.5								
PRECIPITATION.								
Total this month 1.98; snowfall 23.6								
Greatest precipitation in 24 hours 0.83, date 6								
Snow on the ground at end of month 13.8								
Total precipitation this month in								
1871	80	89	8.89	98	0.67	07	0.94	16
1872	81	90	0.89	99	1.89	08	0.48	17
1873	82	91	2.77	00	1.17	09	1.27	18
1874	83	92	2.17	01	2.53	10	0.88	19
1875	84	93	1.91	02	0.85	11	1.01	20
1876	85	94	1.34	03	0.40	12	1.47	21
1877	86	95	1.29	04	1.19	13	0.25	22
1878	87	96	2.41	05	0.19	14	0.07	23
1879	88	97	0.80	06	1.84	15	0.89	24
Normal for this month 1.82								
Excess (+) or deficiency (-) of this month as compared with the normal 0.16								
Accumulated excess (+) or deficiency (-) since January 1 -6.34								
MEAN RELATIVE HUMIDITY (Percentage).								
6 a. m., 80; 12 noon, 72; 6 p. m., 77								
WIND.								
Prevailing direction South; total movement 7328 miles;								
average hourly velocity 9.8; maximum velocity (for five								
minutes) 40 miles per hour, from S								
on 5								
WEATHER.								
Number of days, clear 3; partly cloudy 5; cloudy 23;								
on which .01 inch, or more, of precipitation occurred 19								
MISCELLANEOUS PHENOMENA (dates of).								
Auroras 0; halos: solar 0, lunar 0								
Hail 0; sleet 0; fog 0								
Thunderstorms 0								
*Frost: light ---; heavy ---; killing ---								

NOTE.—"T" indicates trace of precipitation.

Autumn frosts are not recorded after the occurrence of "killing," except in Florida and along the immediate coast of the Gulf of Mexico.

E. H. Fletcher, Observer.

Weather Bureau.

U.S. DEPARTMENT OF AGRICULTURE.

WEATHER BUREAU.

MONTHLY

METEOROLOGICAL SUMMARY.

STATION.

Yellowstone Park, Wyo.

MONTH

DEC 1922, 19